

5

Claims:

1. A method for producing cells which are suitable for implantation at the site of a bone infirmity in a human, comprising transforming a suitable human host cell with a DNA encoding a bone morphogenetic protein (BMP) and culturing such cells.

2. The method of claim 1, wherein the host cell is a cultured cell line.

10

3. The method of claim 2, wherein the host cell contains an endogenous BMP receptor.

4. The method of claim 1, wherein the host cell is a primary cell.

5. The method of claim 4, wherein the host cell contains an endogenous BMP receptor.

15

6. A method for producing cells which are suitable for implantation at the site of a bone infirmity in a human, comprising transforming a suitable human host cell with a DNA encoding a bone morphogenetic protein (BMP) and a DNA encoding a BMP receptor protein and culturing said cells.

7. The method of claim 6, wherein the host cell is a cultured cell line.

20

8. The method of claim 7, wherein the host cell contains an endogenous BMP receptor.

9. The method of claim 6, wherein the host cell is a primary cell.

10. The method of claim 9, wherein the host cell contains an endogenous BMP receptor.

25

add B'